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The claims defining the invention are as follows:

1. A relay module for connection to a door latch in a secure area, comprising:

a micro-controller decrypting encrypted communications from a reader in an unsecured area and comparing the decrypted communications to an expected code; and

a relay coupled to said micro-controller switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

- 2. The relay module of claim 1, wherein said relay module and said door latch are a single module.
- 3. The relay module of claim 1, wherein said micro-controller enables said relay if the comparison indicates a correct match.
- 4. The relay module of claim 3, wherein if said relay is enabled, power runs through said door latch to unlock a door.
 - 5. The relay module of claim 1, further comprising at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.
- 6. The relay module of claim 5, wherein said at least one buffer protects said micro-controller from being damaged if a spike occurs in said communications between said reader and said relay module.
 - 7. The relay module of claim 5, wherein said at least one buffer rectifies any voltage level drop between said reader and said relay module.
 - 8. A method of switching a door latch in a secure area, said method comprising the steps of:

decrypting encrypted communications from a reader in an unsecured area and comparing the decrypted communications to an expected code; and

switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

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- 9. The method of claim 8, wherein a micro-controller implements said decrypting and comparing steps.
- 10. The method of claim 9, wherein a relay coupled to said microcontroller implements said switching step.
- 11. The method of claim 10, wherein said relay module and said door latch are a single module.
- 12. The method of claim 9, wherein said micro-controller enables said relay if the comparison indicates a correct match.
- 13. The method of claim 12, wherein if said relay is enabled, power runs through said door latch to unlock a door.
 - 14. The method of claim 8, further comprising the step of receiving said encrypted communications from said reader.
 - 15. The method of claim 14, wherein at least one buffer coupled to said micro-controller implements said receiving step.
 - 16. The method of claim 15, wherein said at least one buffer protects said micro-controller from being damaged if a spike occurs in said communications between said reader and said relay module.
 - 17. The method of claim 15, wherein said at least one buffer rectifies any voltage level drop between said reader and said relay module.
 - 18. An access control system, comprising:

a reader located in an unsecured area for determining access rights in response to presentation of a card and generating encrypted communications;

a relay module located in a secure area for receiving said encrypted communications from said reader, decrypting said encrypted communications, and comparing the decrypted communications to an expected code;

a door latch coupled to said relay module, said door latch actuated by said relay module switching power if the comparison of said decrypted communications and said expected code indicates a correct match.

19. The access control system according to claim 18, wherein said generated encrypted communications comprises an access command for said relay module.

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- 20. The access control system according to claim 18, wherein said door latch is directly connected to said relay module.
- 21. The access control system according to claim 20, wherein said relay module and said door latch are a single module.
- The access control system according to claim 18, wherein said reader comprises logic functions and a database residing in said reader.
 - 23. The access control system according to claim 22, wherein said database holds information including access times, users, hot-listing, holidays, and the like.
- 10 24. The access control system according to claim 22, wherein said reader is autonomous if communications are cut or a master computer is brought down.
 - 25. The access control system according to claim 18, wherein said reader is a smartcard reader and said card is a smartcard.
- 26. The access control system according to claim 25, wherein said smartcard implements an anti-passback feature.
 - 27. The access control system according to claim 18, wherein said reader is a biometric reader.
 - 28. The access control system according to claim 18, wherein said relay module is a storage relay module.
 - 29. The access control system according to claim 18, wherein said relay module comprises:

a micro-controller for decrypting encrypted communications from a reader in an unsecured area and for comparing the decrypted communications to an expected code; and

- a relay coupled to said micro-controller for switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.
 - 30. The access control system according to claim 29, wherein said relay module further comprises at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.

31. The access control system according to claim 18, wherein said communications are encrypted using 128-bit AES, 3DES, DES, or skipjack.

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32. A method of controlling access to a secure area, said method comprising the steps of:

determining access rights using a reader located in an unsecured area in response to presentation of a card and generating encrypted communications;

receiving said encrypted communications from said reader using a relay module located in a secure area for, decrypting said encrypted communications, and comparing the decrypted communications to an expected code; and

actuating a door latch coupled to said relay module using said relay module by switching power if the comparison of said decrypted communications and said expected code indicates a correct match.

- 33. The method according to claim 32, wherein said generated encrypted communications comprises an access command for said relay module.
- 34. The method according to claim 32, wherein said door latch is directly connected to said relay module.
 - 35. The method according to claim 34, wherein said relay module and said door latch are a single module.
- 36. The method according to claim 32, wherein said reader comprises logic functions and a database residing in said reader.
 - 37. The method according to claim 36, wherein said database holds information including access times, users, hot-listing, holidays, and the like.
 - 38. The method according to claim 36, wherein said reader is autonomous if communications are cut or a master computer is brought down.
 - 39. The method according to claim 32, wherein said reader is a smartcard reader and said card is a smartcard.
 - 40. The method according to claim 39, wherein said smartcard implements an anti-passback feature.
- 41. The method according to claim 32, wherein said reader is a biometric 30 reader.

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- 42. The method according to claim 32, wherein said relay module is a storage relay module.
- 43. The method according to claim 32, wherein said relay module comprises:

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a micro-controller for decrypting encrypted communications from a reader in an unsecured area and for comparing the decrypted communications to an expected code; and

a relay coupled to said micro-controller for switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

- 44. The method according to claim 43, wherein said relay module further comprises at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.
- 45. The method according to claim 32, wherein said communications are encrypted using 128-bit AES, 3DES, DES, or skipjack.
- 46. A method of providing antipassback in an access control system, said method comprising the steps of:

reading antipassback information from a read/write smartcard presented to a read/write reader;

checking permissions using said read/write reader; and updating said read/write smartcard with updated antipassback information using said reader.

- 47. A method of providing antipassback in an access control system, said method comprising the steps of:
- reading antipassback information from a read/write smartcard presented to a read/write reader;

determining if said antipassback information passes an integrity check based on an entry/exit pattern; and

if the antipassback information passes the integrity check, writing updated antipassback information to said read/write smartcard and granting access.

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- 48. The method according to claim 47, further comprising the step of, if the antipassback information fails to satisfy the integrity check, denying access.
- 49. The method according to any one of claims 46 to 48, wherein said antipassback is able to be disabled.
- 50. The method according to any one of claims 46 to 49, wherein said antipassback is able to be normalized so that a cardholder may proceed through an antipassback area without violating antipassback rules.
- 51. The method according to claim 50, wherein a database of readers is updated with an antipassback flag.

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